

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122822\  
 Data File : BF131870.D  
 Acq On : 28 Dec 2022 20:08  
 Operator : CG\JU  
 Sample : N6220-01  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

Quant Time: Dec 29 00:59:48 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 26 05:13:34 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/29/2022  
 Supervised By :Jagrut Upadhyay 01/03/2023

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.822  | 152  | 64617    | 20.000  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.116  | 136  | 227043   | 20.000  | ng    | #-0.01   |
| 39) Acenaphthene-d10        | 9.886  | 164  | 124169   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.386 | 188  | 194993   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12            | 14.027 | 240  | 124936   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 15.515 | 264  | 141582   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.440  | 112  | 476342   | 122.167 | ng    | 0.00     |
| 7) Phenol-d6                | 6.457  | 99   | 627087   | 122.413 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.392  | 82   | 416922   | 73.316  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.686 | 330  | 136435   | 101.130 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.204  | 172  | 649139   | 71.608  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.974 | 244  | 534415   | 72.355  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 37) 2-Methylnaphthalene     | 8.845  | 142  | 882947   | 105.804 | ng    | 99       |
| 38) 1-Methylnaphthalene     | 8.945  | 142  | 630054   | 77.728  | ng    | 99       |
| 52) Acenaphthene            | 9.922  | 154  | 67146    | 9.500   | ng    | # 75     |
| 58) Fluorene                | 10.439 | 166  | 120194   | 13.520  | ng    | # 92     |
| 71) Phenanthrene            | 11.410 | 178  | 439471   | 40.984  | ng    | 98       |
| 72) Anthracene              | 11.457 | 178  | 45544m   | 4.342   | ng    |          |
| 75) Fluoranthene            | 12.604 | 202  | 136571   | 10.934  | ng    | 97       |
| 78) Pyrene                  | 12.833 | 202  | 169199   | 16.158  | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.021 | 228  | 58410    | 6.457   | ng    | 96       |
| 83) Chrysene                | 14.057 | 228  | 54370    | 6.396   | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.998 | 276  | 22409    | 2.491   | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.080 | 252  | 63919m   | 6.157   | ng    |          |
| 90) Benzo(a)pyrene          | 15.445 | 252  | 46681    | 5.808   | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 17.451 | 276  | 20670    | 7.360   | ng    | # 90     |
| -----                       |        |      |          |         |       |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

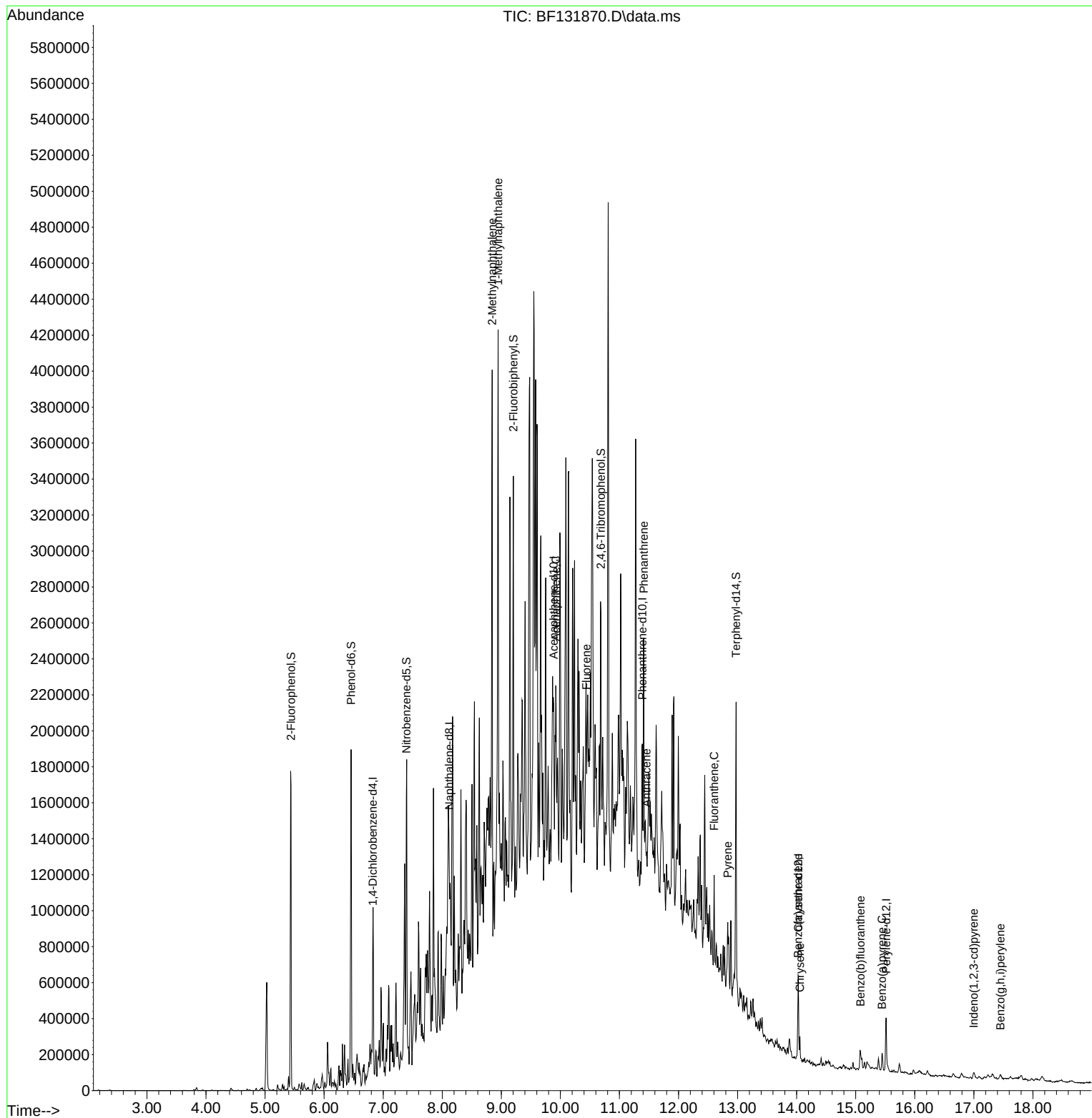
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122822\  
Data File : BF131870.D  
Acq On : 28 Dec 2022 20:08  
Operator : CG\JU  
Sample : N6220-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

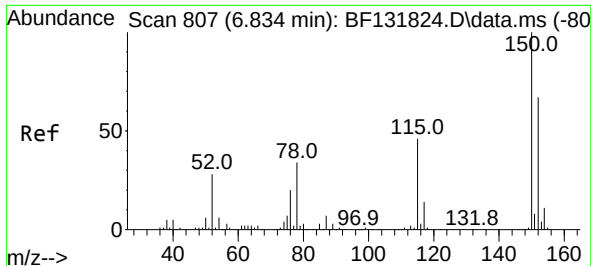
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Time: Dec 29 00:59:48 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 26 05:13:34 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

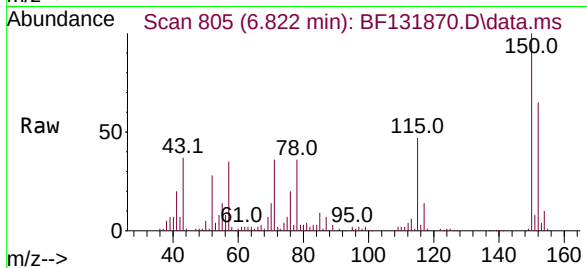
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.822 min Scan# 807  
Delta R.T. -0.012 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

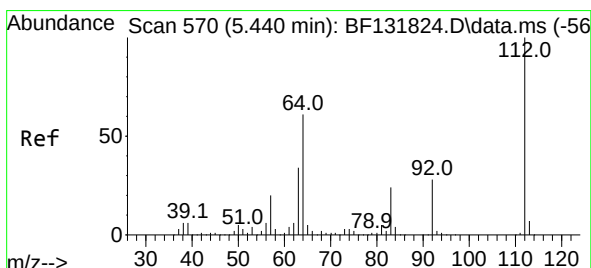
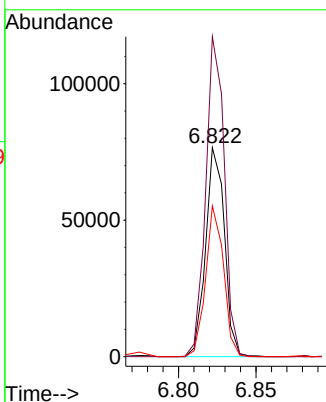
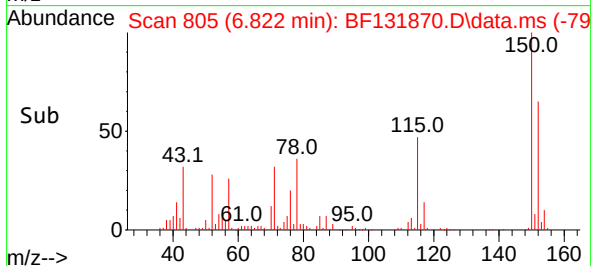
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



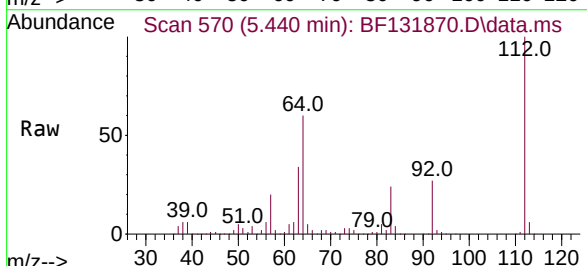
Tgt Ion:152 Resp: 64617  
Ion Ratio Lower Upper  
152 100  
150 153.2 120.0 180.0  
115 72.1 55.1 82.7

Manual Integrations  
APPROVED

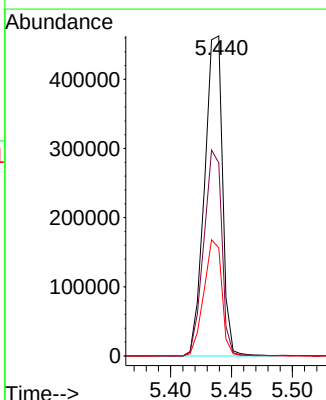
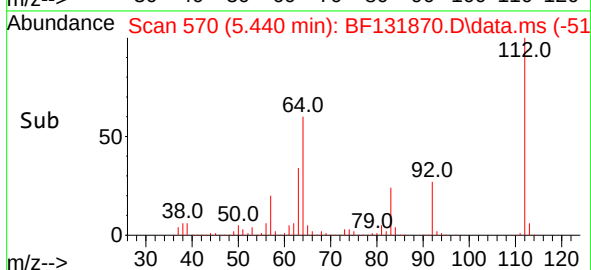
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023

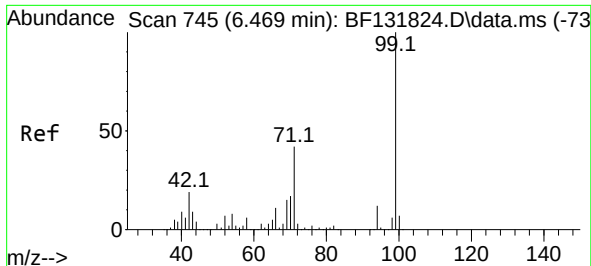


#5  
2-Fluorophenol  
Concen: 122.167 ng  
RT: 5.440 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08



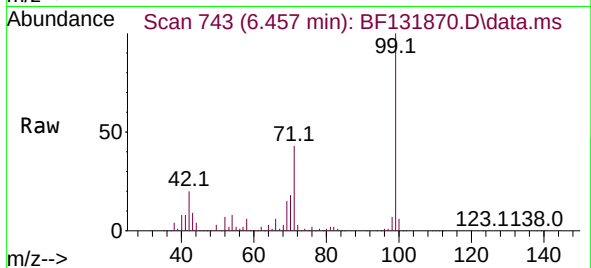
Tgt Ion:112 Resp: 476342  
Ion Ratio Lower Upper  
112 100  
64 60.3 49.2 73.8  
63 33.8 27.5 41.3





#7  
Phenol-d6  
Concen: 122.413 ng  
RT: 6.457 min Scan# 745  
Delta R.T. -0.012 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

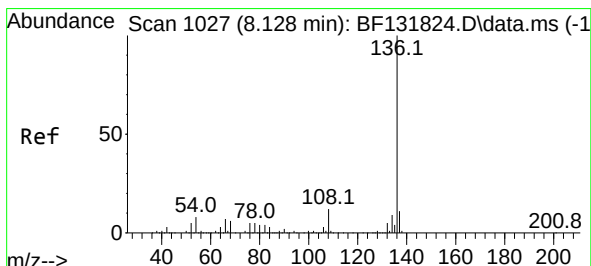
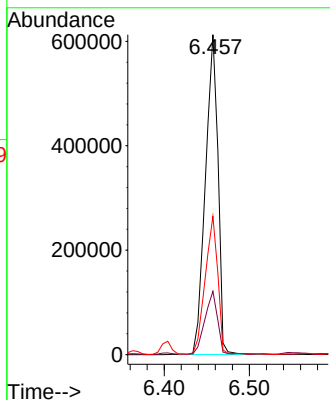
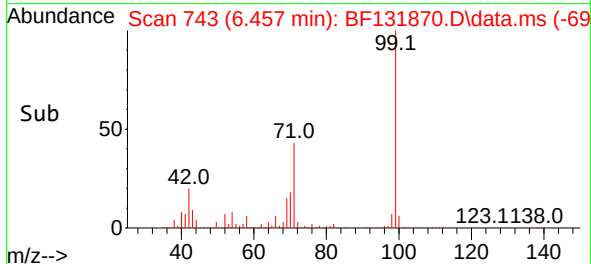
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



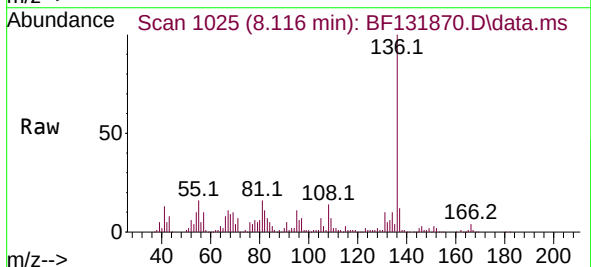
Tgt Ion: 99 Resp: 62708  
Ion Ratio Lower Upper  
99 100  
42 19.8 15.3 22.9  
71 43.2 33.5 50.3

Manual Integrations  
APPROVED

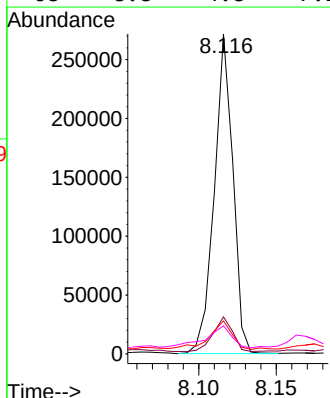
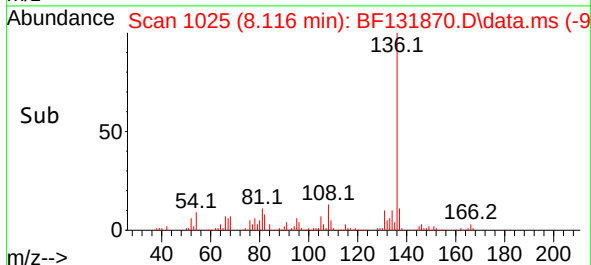
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023

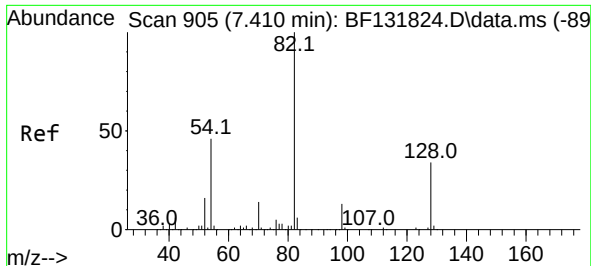


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. -0.012 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08



Tgt Ion:136 Resp: 227043  
Ion Ratio Lower Upper  
136 100  
137 11.6 8.6 12.8  
54 10.3 6.7 10.1#  
68 8.8 4.8 7.2#





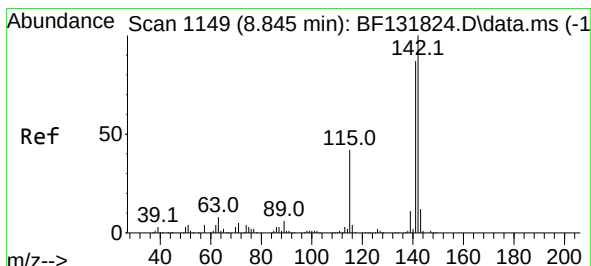
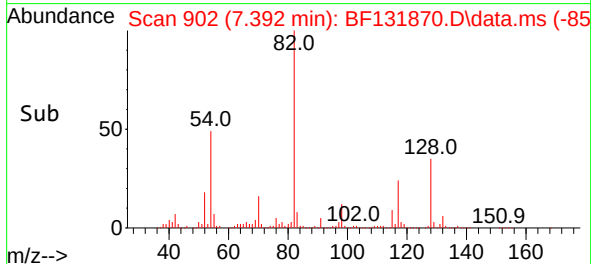
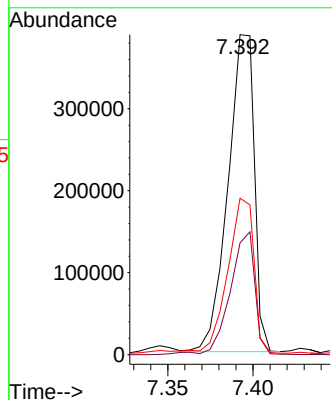
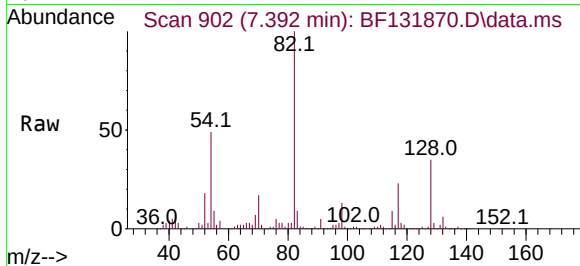
#23  
Nitrobenzene-d5  
Concen: 73.316 ng  
RT: 7.392 min Scan# 905  
Delta R.T. -0.018 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Tgt Ion: 82 Resp: 416922  
Ion Ratio Lower Upper  
82 100  
128 34.9 27.1 40.7  
54 48.9 37.0 55.6

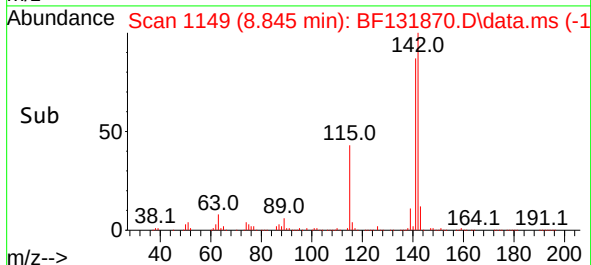
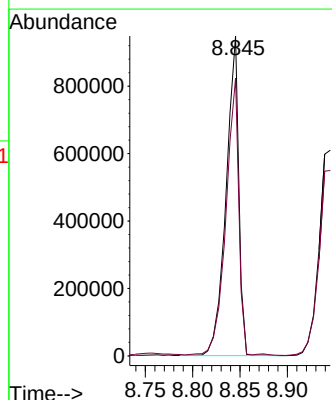
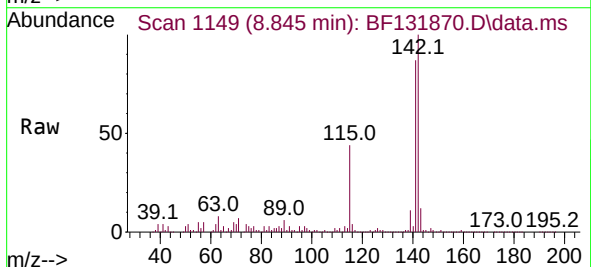
Manual Integrations  
APPROVED

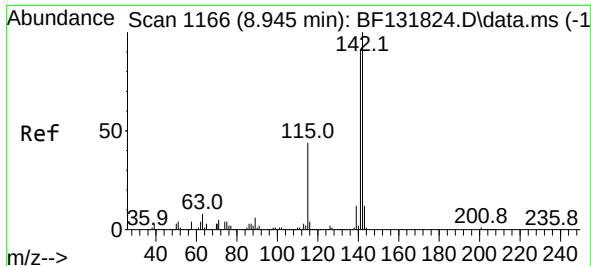
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023



#37  
2-Methylnaphthalene  
Concen: 105.804 ng  
RT: 8.845 min Scan# 1149  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

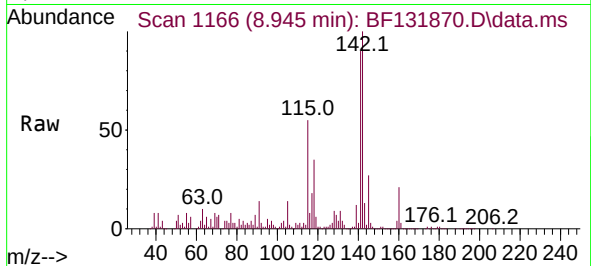
Tgt Ion:142 Resp: 882947  
Ion Ratio Lower Upper  
142 100  
141 86.8 69.8 104.8





#38  
1-Methylnaphthalene  
Concen: 77.728 ng  
RT: 8.945 min Scan# 1166  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

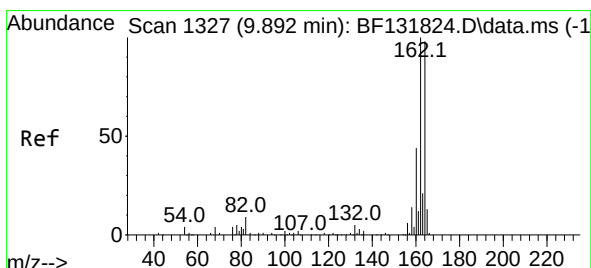
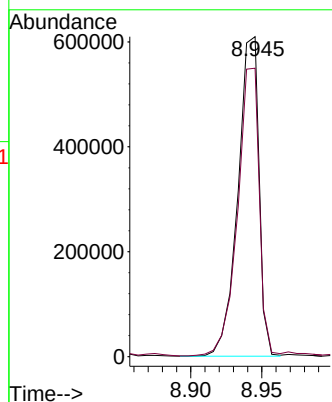
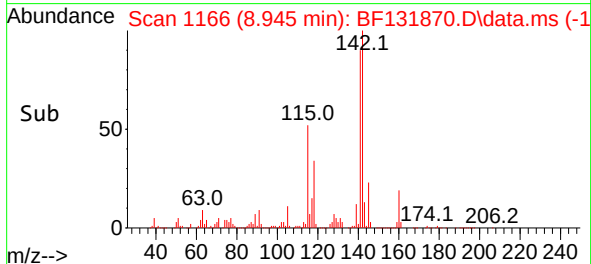
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



Tgt Ion:142 Resp: 630054  
Ion Ratio Lower Upper  
142 100  
141 90.1 73.0 109.6

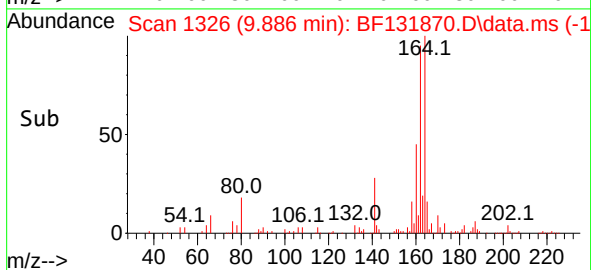
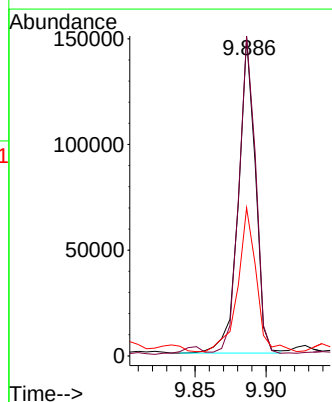
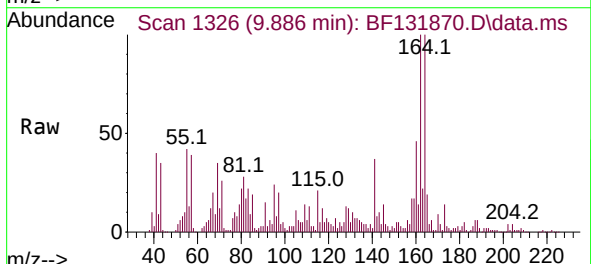
Manual Integrations  
APPROVED

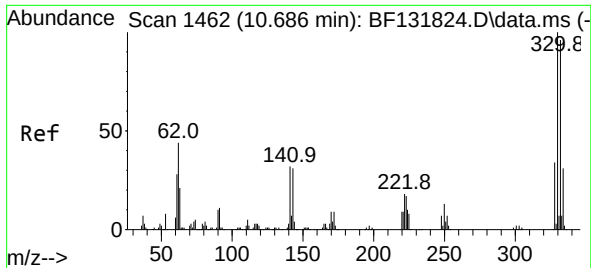
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.886 min Scan# 1326  
Delta R.T. -0.006 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

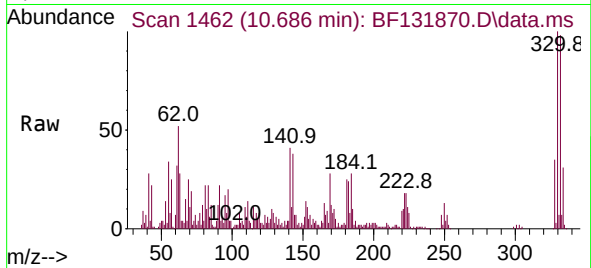
Tgt Ion:164 Resp: 124169  
Ion Ratio Lower Upper  
164 100  
162 100.5 81.8 122.6  
160 46.5 35.7 53.5





#42  
2,4,6-Tribromophenol  
Concen: 101.130 ng  
RT: 10.686 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

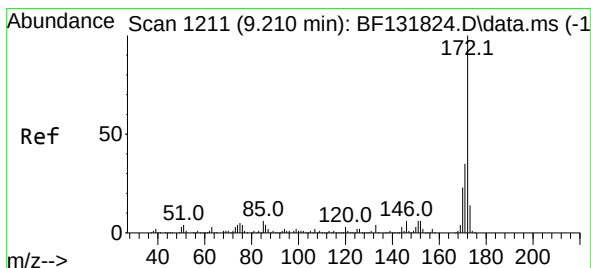
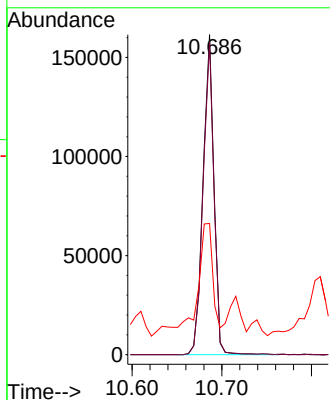
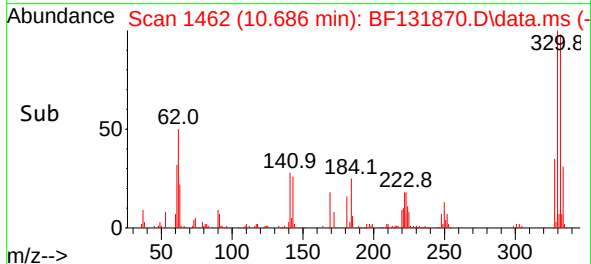
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



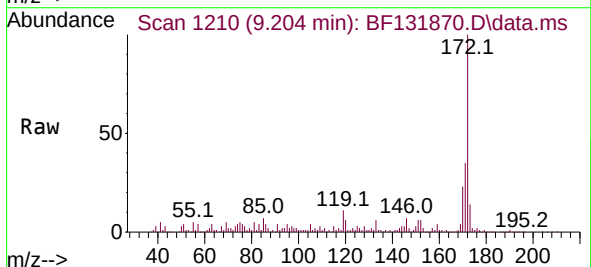
Tgt Ion: 330 Resp: 136435  
Ion Ratio Lower Upper  
330 100  
332 97.1 77.0 115.4  
141 52.9 31.0 46.4

Manual Integrations  
APPROVED

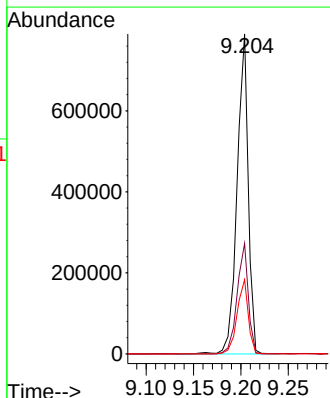
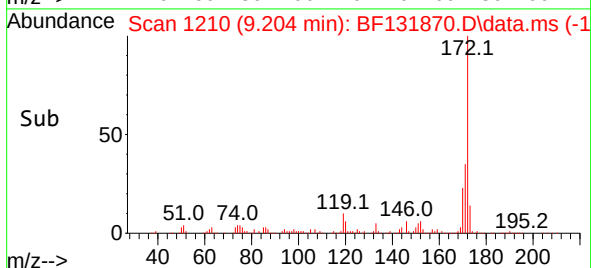
Reviewed By : Christian Giraldo 12/29/2022  
Supervised By : Jagrut Upadhyay 01/03/2023

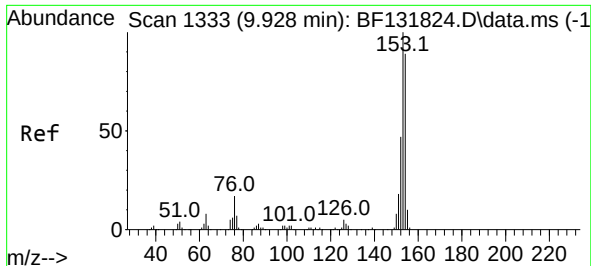


#45  
2-Fluorobiphenyl  
Concen: 71.608 ng  
RT: 9.204 min Scan# 1210  
Delta R.T. -0.006 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08



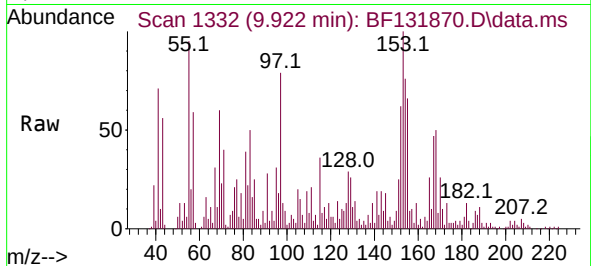
Tgt Ion: 172 Resp: 649139  
Ion Ratio Lower Upper  
172 100  
171 34.5 27.9 41.9  
170 23.2 18.7 28.1





#52  
Acenaphthene  
Concen: 9.500 ng  
RT: 9.922 min Scan# 1333  
Delta R.T. -0.006 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

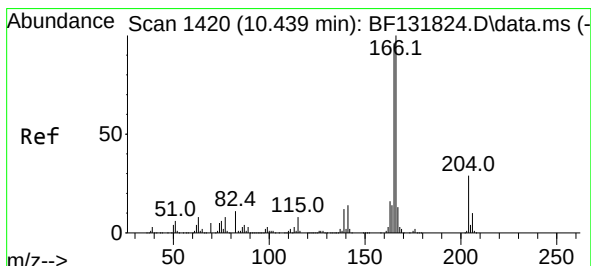
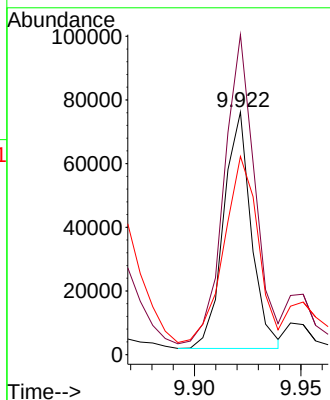
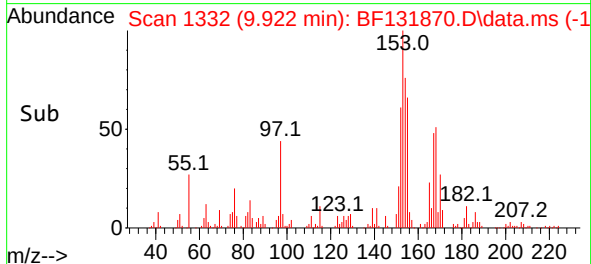
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



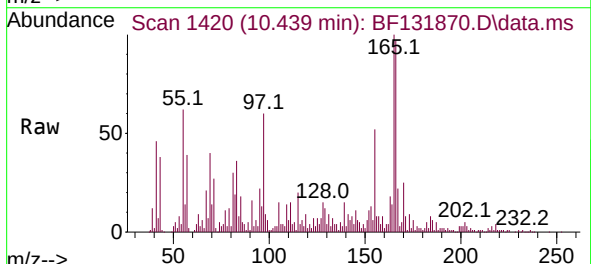
Tgt Ion:154 Resp: 67146  
Ion Ratio Lower Upper  
154 100  
153 132.0 90.2 135.2  
152 81.8 42.5 63.7

Manual Integrations  
APPROVED

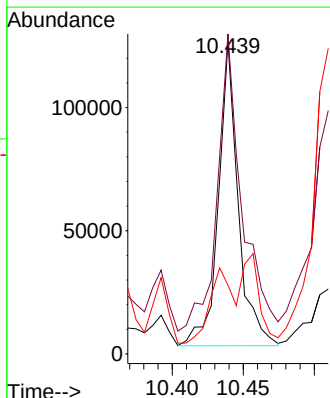
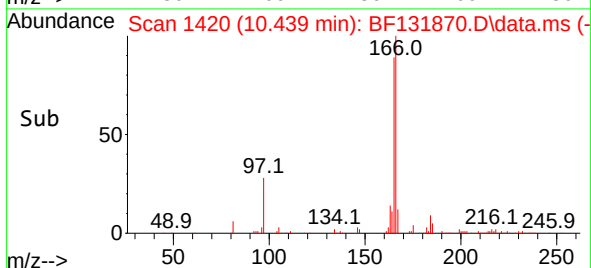
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023



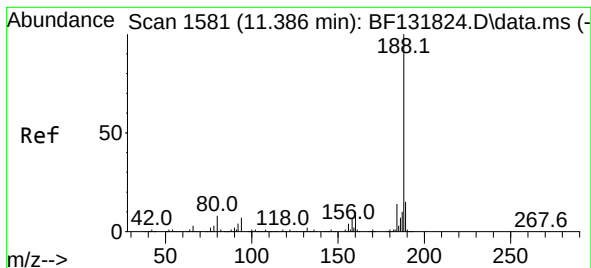
#58  
Fluorene  
Concen: 13.520 ng  
RT: 10.439 min Scan# 1420  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08



Tgt Ion:166 Resp: 120194  
Ion Ratio Lower Upper  
166 100  
165 102.6 77.0 115.4  
167 22.1 10.4 15.6

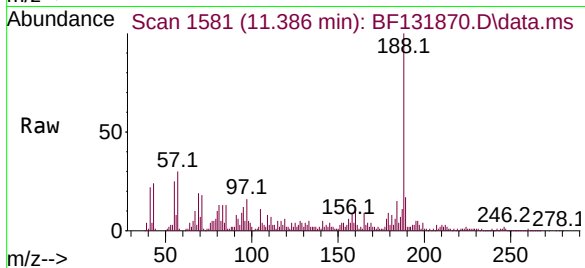






#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.386 min Scan# 1581  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

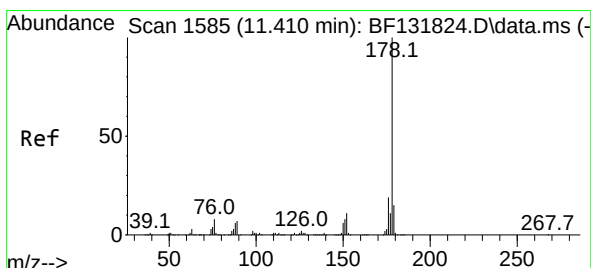
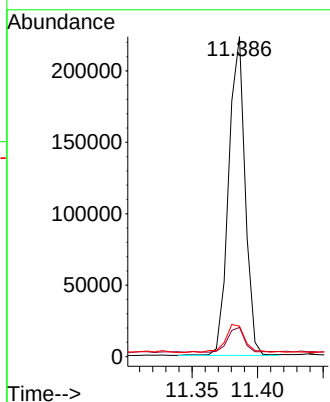
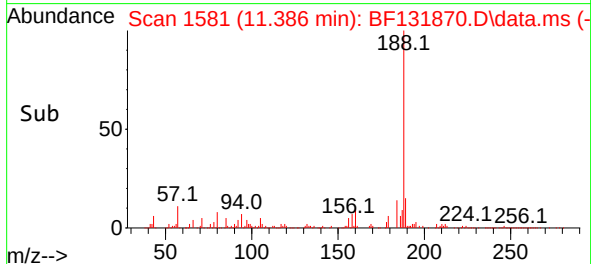
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



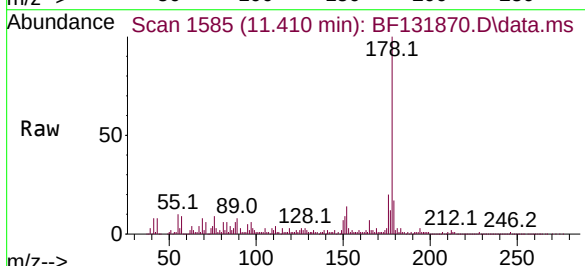
Tgt Ion:188 Resp: 194993  
Ion Ratio Lower Upper  
188 100  
94 9.1 5.8 8.6  
80 9.5 6.7 10.1

Manual Integrations  
APPROVED

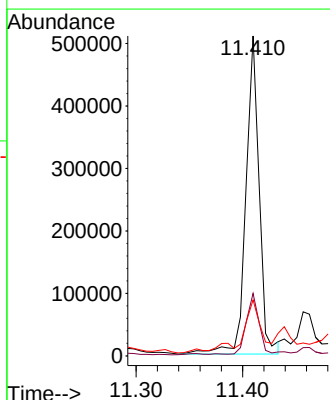
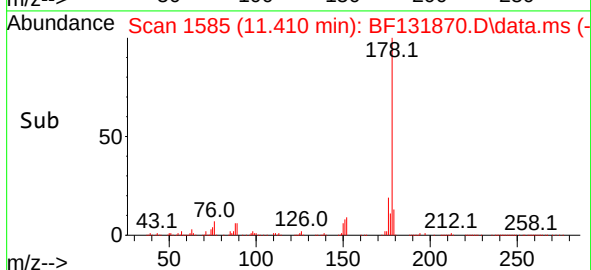
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023

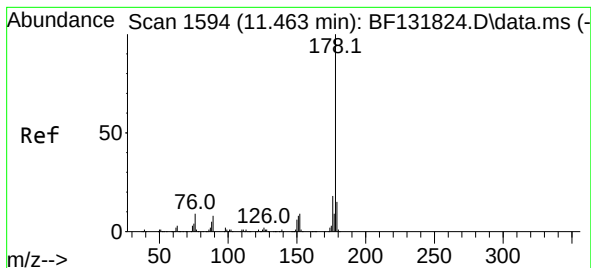


#71  
Phenanthrene  
Concen: 40.984 ng  
RT: 11.410 min Scan# 1585  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08



Tgt Ion:178 Resp: 439471  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.5 23.3  
179 17.5 12.2 18.4





#72

Anthracene

Concen: 4.342 ng m

RT: 11.457 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF131870.D

Acq: 28 Dec 2022 20:08

Instrument :

BNA\_F

ClientSampleId :

TP-1

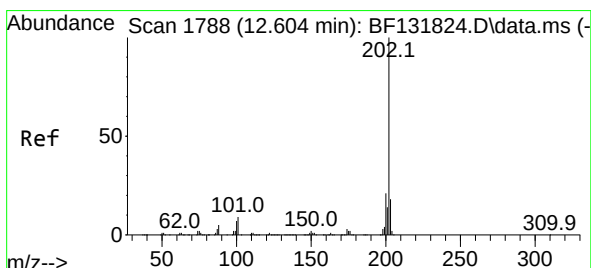
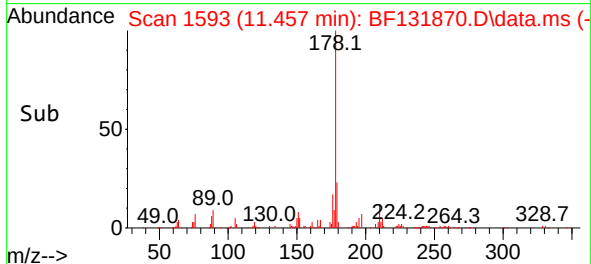
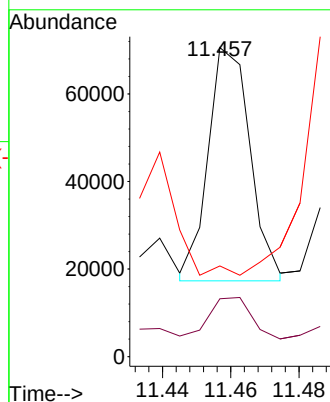
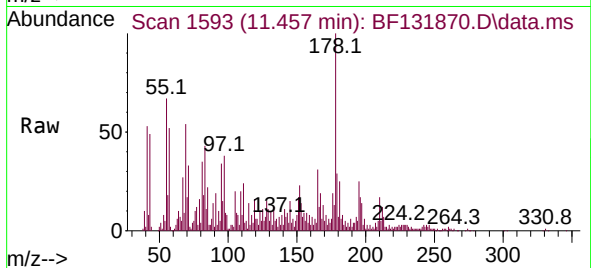
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 45544     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.7  | 14.8 22.2 |
| 179         | 29.3  | 12.2 18.2 |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/29/2022

Supervised By :Jagrut Upadhyay 01/03/2023



#75

Fluoranthene

Concen: 10.934 ng

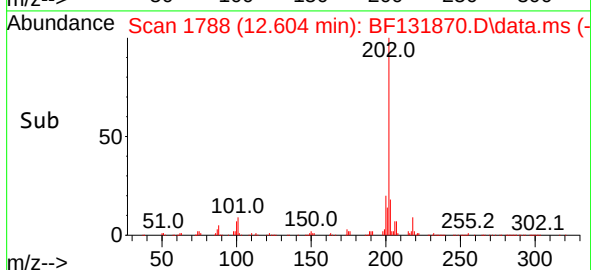
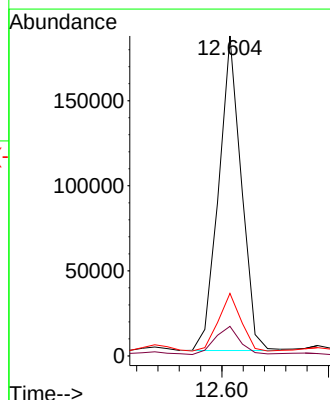
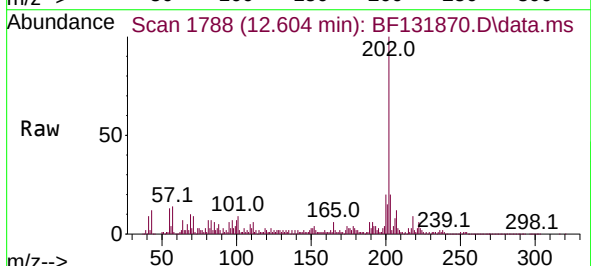
RT: 12.604 min Scan# 1788

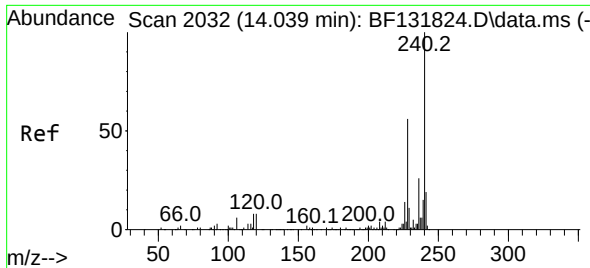
Delta R.T. -0.000 min

Lab File: BF131870.D

Acq: 28 Dec 2022 20:08

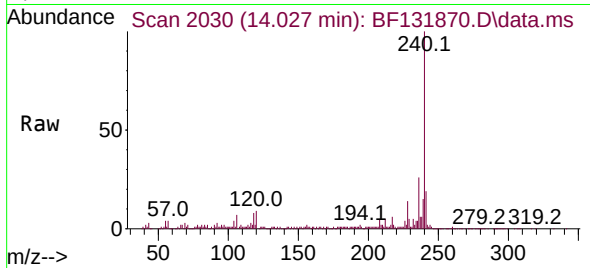
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 136571   |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 9.2   | 0.0 28.6 |
| 203         | 19.5  | 0.0 37.8 |





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.027 min Scan# 2032  
Delta R.T. -0.012 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

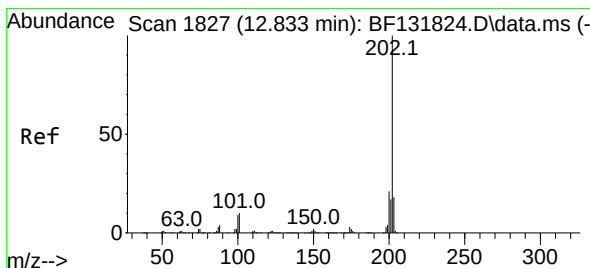
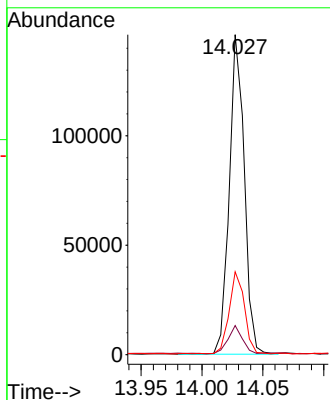
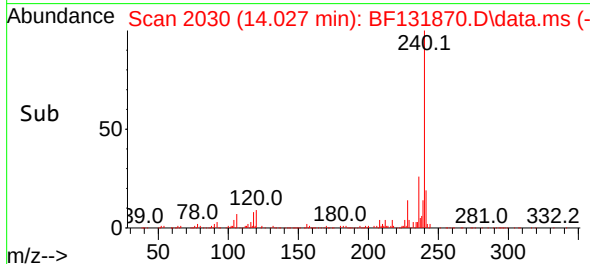
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



Tgt Ion:240 Resp: 124936  
Ion Ratio Lower Upper  
240 100  
120 9.1 6.7 10.1  
236 25.9 20.6 31.0

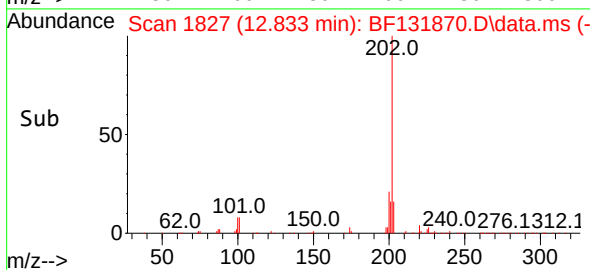
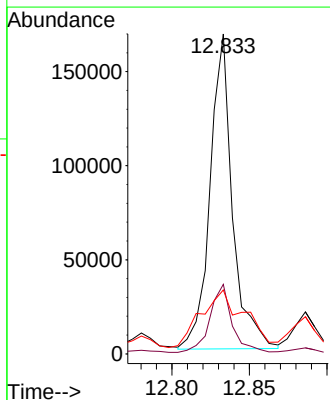
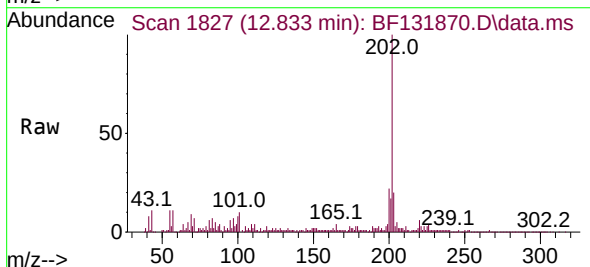
Manual Integrations  
APPROVED

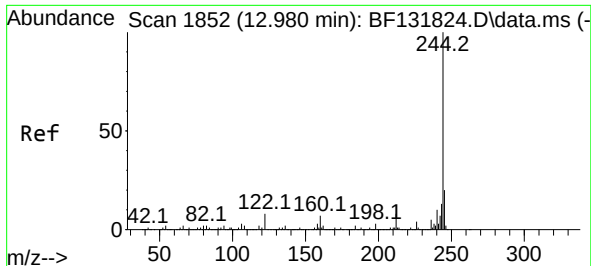
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023



#78  
Pyrene  
Concen: 16.158 ng  
RT: 12.833 min Scan# 1827  
Delta R.T. -0.000 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

Tgt Ion:202 Resp: 169199  
Ion Ratio Lower Upper  
202 100  
200 21.7 16.7 25.1  
203 20.0 14.4 21.6





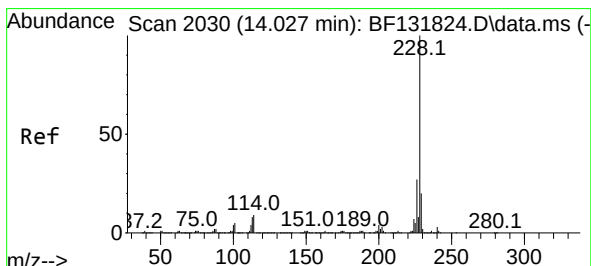
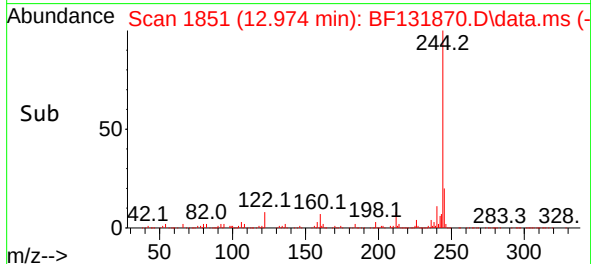
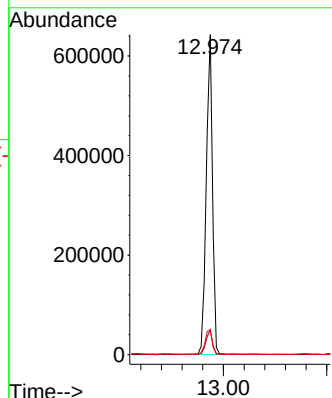
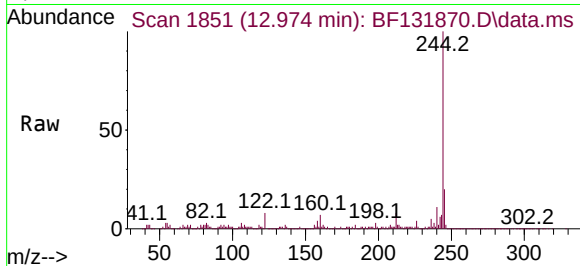
#79  
 Terphenyl-d14  
 Concen: 72.355 ng  
 RT: 12.974 min Scan# 1852  
 Delta R.T. -0.006 min  
 Lab File: BF131870.D  
 Acq: 28 Dec 2022 20:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

Tgt Ion:244 Resp: 534415  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.3 9.5  
 122 7.7 6.4 9.6

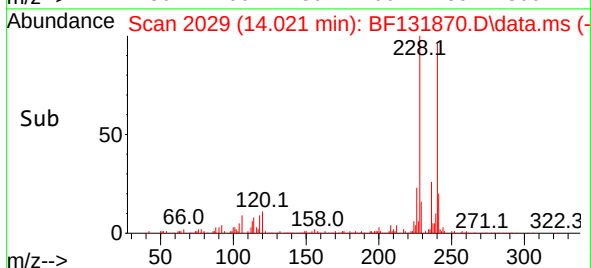
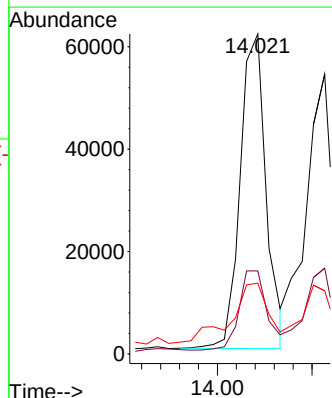
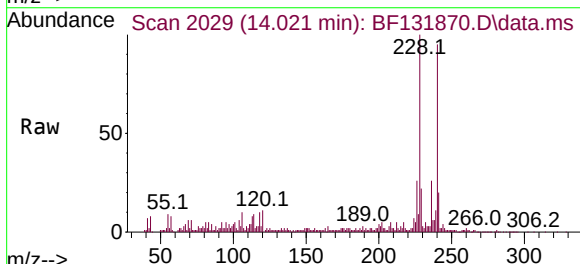
Manual Integrations  
 APPROVED

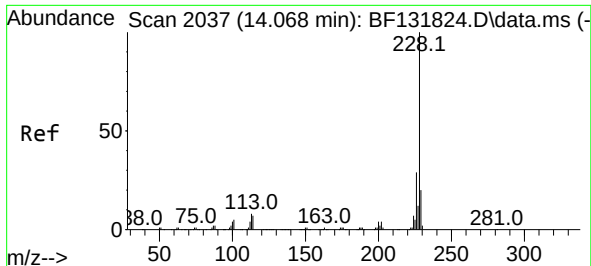
Reviewed By :Christian Giraldo 12/29/2022  
 Supervised By :Jagrut Upadhyay 01/03/2023



#81  
 Benzo(a)anthracene  
 Concen: 6.457 ng  
 RT: 14.021 min Scan# 2029  
 Delta R.T. -0.006 min  
 Lab File: BF131870.D  
 Acq: 28 Dec 2022 20:08

Tgt Ion:228 Resp: 58410  
 Ion Ratio Lower Upper  
 228 100  
 226 25.9 22.0 33.0  
 229 22.1 16.0 24.0





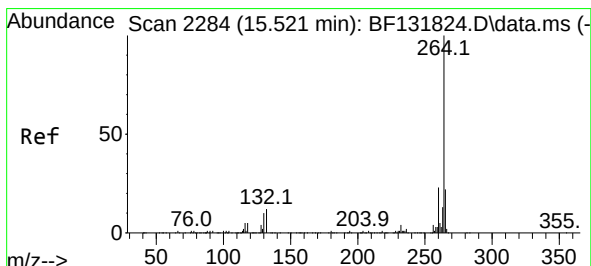
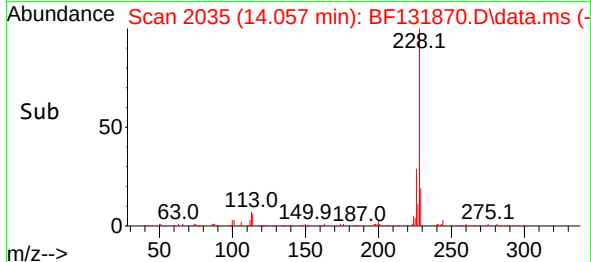
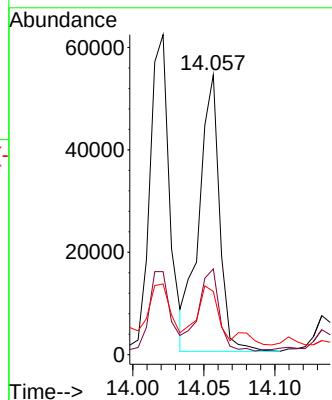
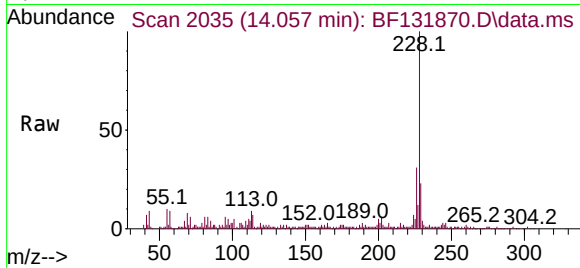
#83  
Chrysene  
Concen: 6.396 ng  
RT: 14.057 min Scan# 2037  
Delta R.T. -0.012 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Tgt Ion:228 Resp: 54376  
Ion Ratio Lower Upper  
228 100  
226 30.6 23.5 35.3  
229 22.6 16.2 24.2

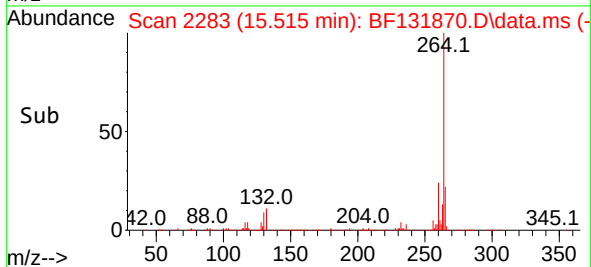
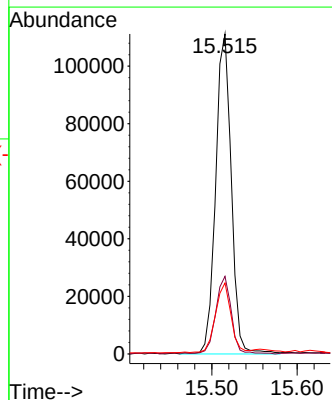
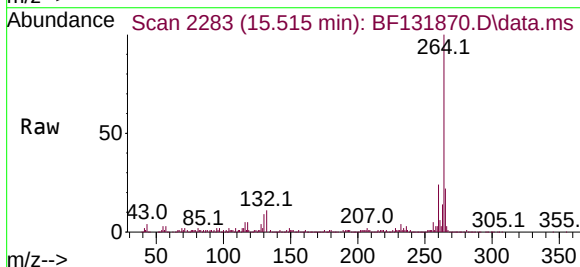
Manual Integrations  
APPROVED

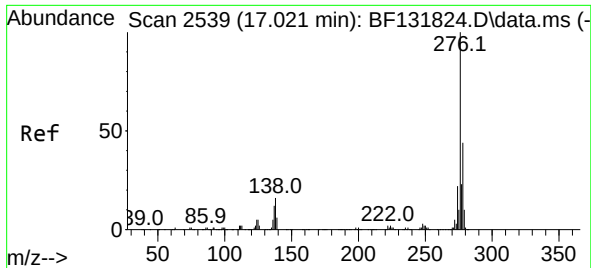
Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.515 min Scan# 2283  
Delta R.T. -0.006 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

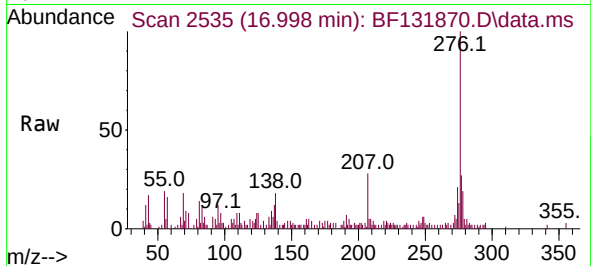
Tgt Ion:264 Resp: 141582  
Ion Ratio Lower Upper  
264 100  
260 24.2 18.6 28.0  
265 22.2 17.4 26.0





#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.491 ng  
 RT: 16.998 min Scan# 2109  
 Delta R.T. -0.024 min  
 Lab File: BF131870.D  
 Acq: 28 Dec 2022 20:08

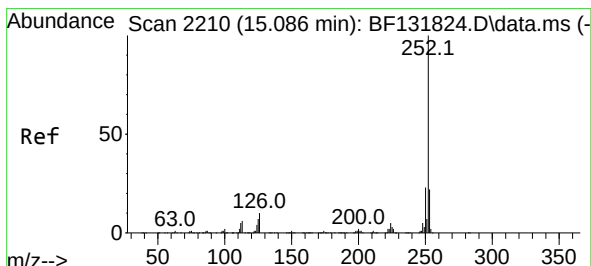
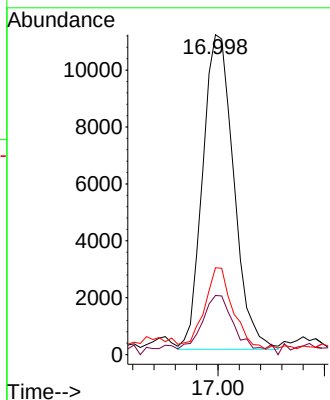
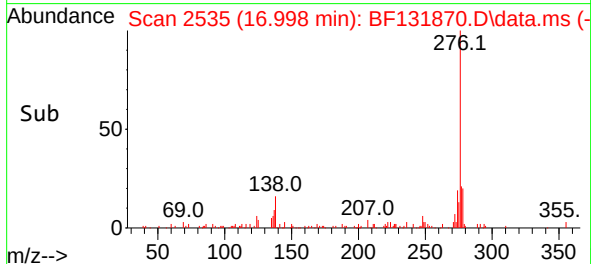
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1



Tgt Ion:276 Resp: 22409  
 Ion Ratio Lower Upper  
 276 100  
 138 19.4 14.5 21.7  
 277 23.8 19.7 29.5

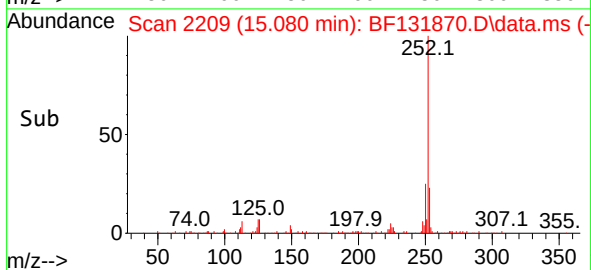
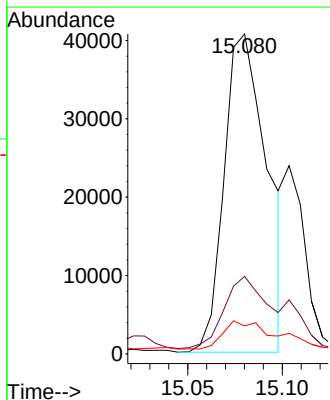
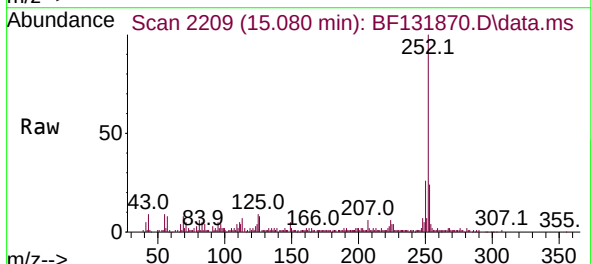
Manual Integrations  
 APPROVED

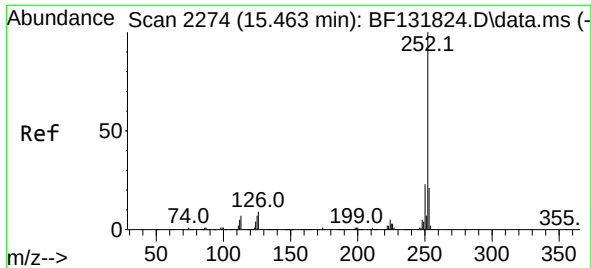
Reviewed By :Christian Giraldo 12/29/2022  
 Supervised By :Jagrut Upadhyay 01/03/2023



#88  
 Benzo(b)fluoranthene  
 Concen: 6.157 ng m  
 RT: 15.080 min Scan# 2209  
 Delta R.T. -0.006 min  
 Lab File: BF131870.D  
 Acq: 28 Dec 2022 20:08

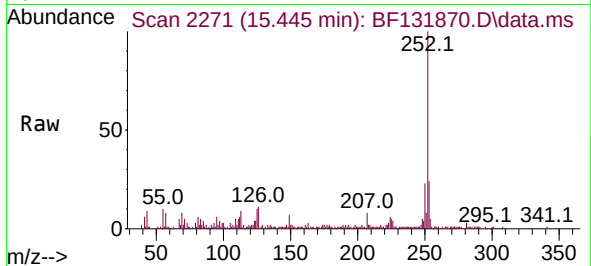
Tgt Ion:252 Resp: 63919  
 Ion Ratio Lower Upper  
 252 100  
 253 24.2 17.6 26.4  
 125 8.7 5.8 8.8





#90  
Benzo(a)pyrene  
Concen: 5.808 ng  
RT: 15.445 min Scan# 2271  
Delta R.T. -0.018 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08

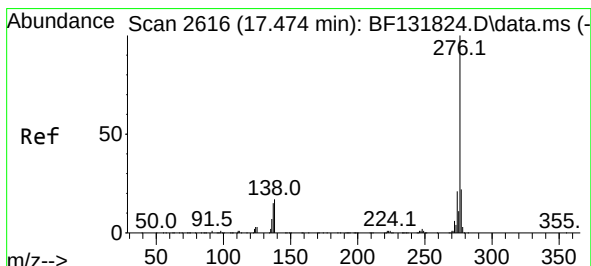
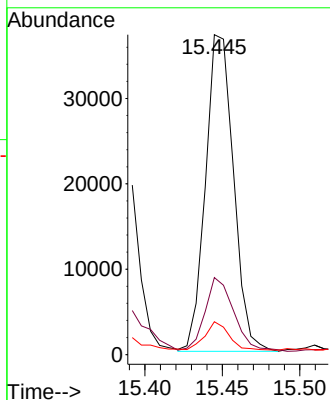
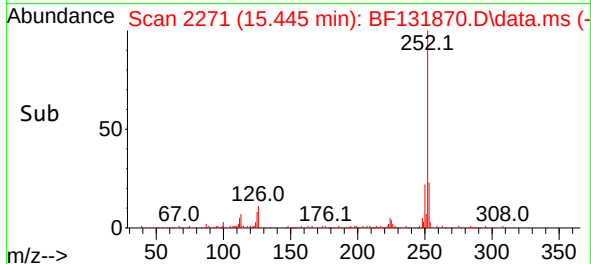
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1



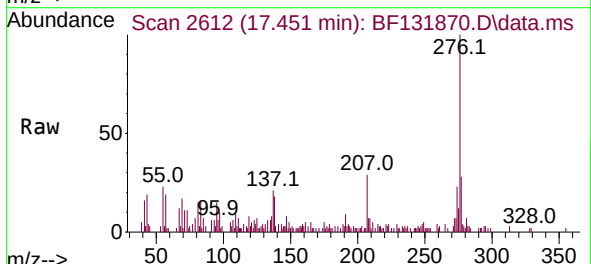
Tgt Ion:252 Resp: 46683  
Ion Ratio Lower Upper  
252 100  
253 24.1 16.6 24.8  
125 10.3 5.8 8.8

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 12/29/2022  
Supervised By :Jagrut Upadhyay 01/03/2023



#92  
Benzo(g,h,i)perylene  
Concen: 7.360 ng  
RT: 17.451 min Scan# 2612  
Delta R.T. -0.023 min  
Lab File: BF131870.D  
Acq: 28 Dec 2022 20:08



Tgt Ion:276 Resp: 20670  
Ion Ratio Lower Upper  
276 100  
277 28.1 17.9 26.9#  
138 20.8 13.7 20.5#

